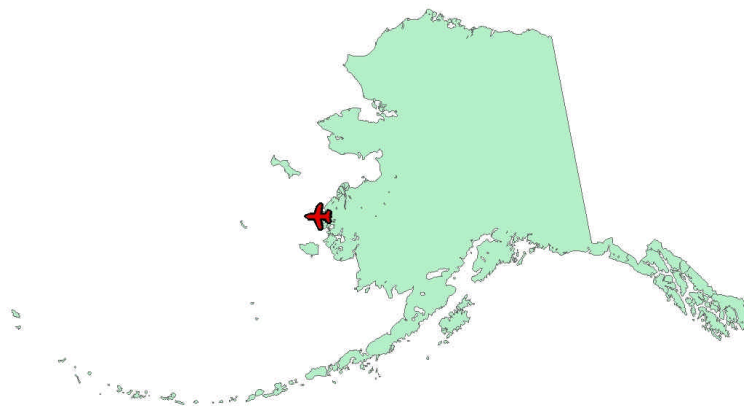


HOOPER BAY AIRPORT



2004 Alaska Airport Pavement Condition Report

Scott Gartin, P.E.
State Pavement Engineer
Statewide Materials Section, Alaska DOT&PF
5800 E. Tudor Road
Phone: (907) 269-6244 Fax: (907) 269-6231
Email: scott_gartin@dot.state.ak.us

Maps and report compiled by
H. June Finkbiner
Central Region Materials, Alaska DOT&PF

HOOPER BAY AIRPORT - 2004

Contents:

- A Pavement Strength Form showing project history, latest Pavement Condition Index (PCI) data, pavement strength ratings (if available) and other useful information
- A Pavement Condition Survey – PCI Sample Unit Layout Plan
- PCI maps showing as-measured and predicted pavement conditions
- Age map showing pavement age as of January 2003
- A Branch PCI Condition Report
- A Section PCI Condition Report

Airport Information:

- Location: The Hooper Bay Airport approximately 1 mile northwest of the City of Hooper Bay on the Nuok Spit of the Bering Sea coast, between the Yukon and Kuskokwim River deltas in Southwestern Alaska.
- District: Southwest, Central Region
- Airport Manager: L.J. Davis/Ron Wittom
- District Maintenance Manager: Troy Larue
- Pavement Surface: Asphalt Concrete and BST
- Last Pavement Construction: 1999
- Pavement layout: Runway 13-31, Taxiway A, and one Apron.
- Design Aircraft: Light General Aviation Aircraft
- 2003 Enplanements: 5,697 – up 16% from 2002
- Airport Class: Non-Primary
- Last pavement condition survey: 2002
- Next planned pavement condition survey: 2005
- 2004 reported pavement maintenance and/or changed conditions: The center of the runway (Section 6100-02) is failed and reverted to gravel. Crack sealing and cold mix patching were done on other paved areas. A storm washed seawater onto the runway in October. See photos.
- **Recommendations:** Complete reconstruction or relocation.

Date: 5 /11/2003

Branch Condition Report

Page 1 of 2

Pavement Database: NetworkID: Hooper bay

Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (SqFt)	Use	Average PCI	PCI Standard Deviation	Weighted Average PCI
100 (Taxiway)	1	162.50	35.00	8,005.50	TAXIWAY	22.00	0.00	22.00
4100 (Apron)	1	490.00	205.00	98,700.00	APRON	29.00	0.00	29.00
6100 (Runway 13-31)	3	3,315.00	75.00	248,625.01	RUNWAY	28.33	8.38	30.98

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average PCI STD.	Weighted Average PCI
APRON	1	98,700.00	29.00	0.00	29.00
RUNWAY	3	248,625.01	28.33	8.38	30.98
TAXIWAY	1	8,005.50	22.00	0.00	22.00
All	5	355,330.51	27.20	7.00	30.23

Date: 5 /11/2003

Section Condition Report

Page 1 of 2

Pavement Database: NetworkID: Hooper bay

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
100 (Taxiway)	100-01	09/01/1991	AC	TAXIWAY	P	0	8,005.50	07/15/2002	11	22.00
4100 (Apron)	4100-01	09/01/1991	AC	APRON	P	0	98,700.00	07/15/2002	11	29.00
6100 (Runway 13-31)	6100-01	09/01/1991	AC	RUNWAY	P	0	106,125.00	07/15/2002	11	31.00
6100 (Runway 13-31)	6100-02	08/01/1999	ST	RUNWAY	P	0	42,975.00	07/15/2002	3	17.00
6100 (Runway 13-31)	6100-03	09/01/1991	AC	RUNWAY	P	0	99,525.00	07/15/2002	11	37.00

Date: 5 /11/2003

Section Condition Report

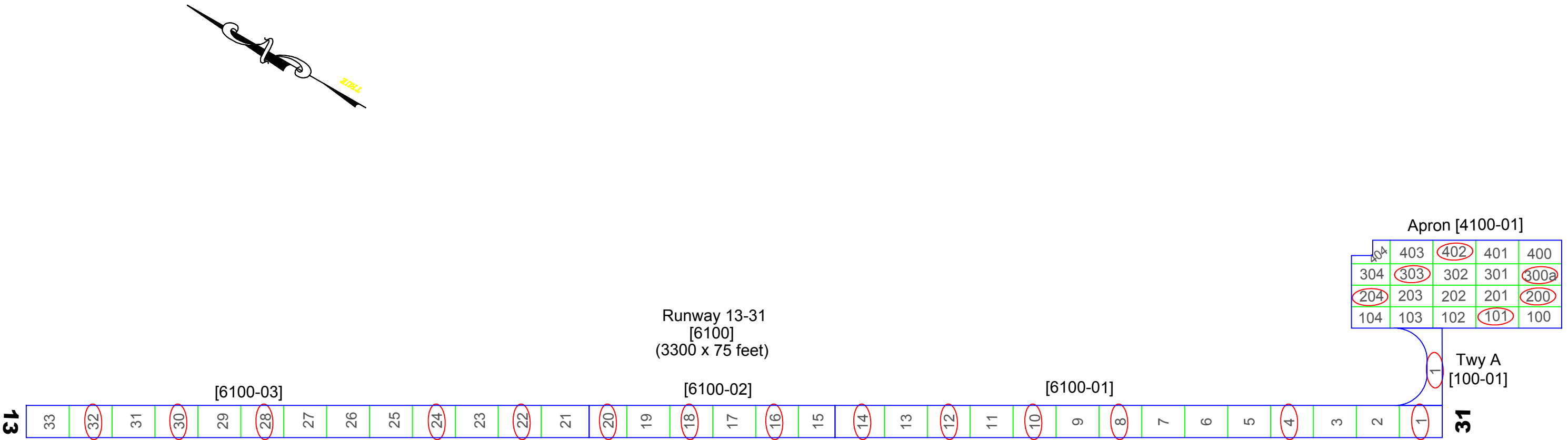
Page 2 of 2

Pavement Database:

Age Category	Average Age At Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	PCI Standard Deviation	Weighted Average PCI
03-05	3.00	42,975.00	1	17.00	0.00	17.00
11-15	11.00	312,355.51	4	29.75	5.36	32.05
All	9.40	355,330.51	5	27.20	7.00	30.23

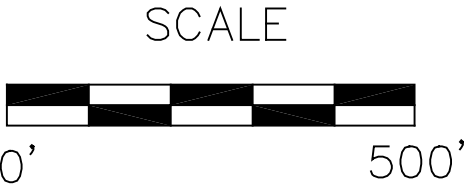
PAVEMENT STRENGTH SURVEY

[illegible]

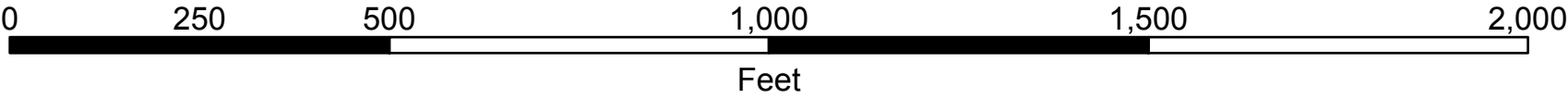
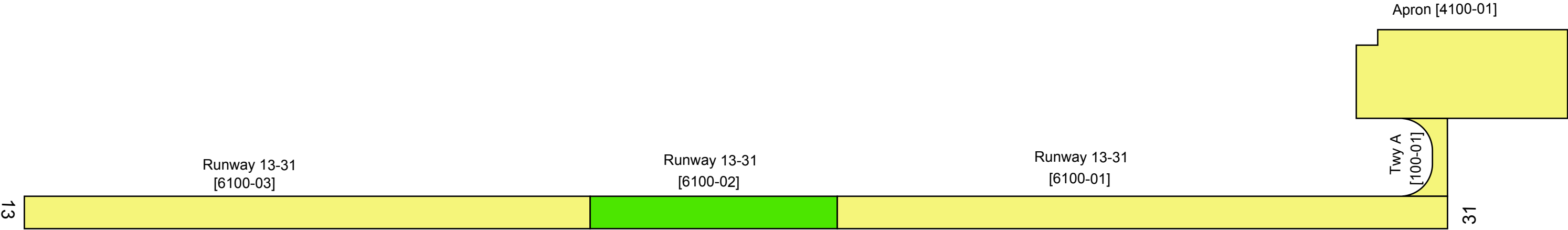
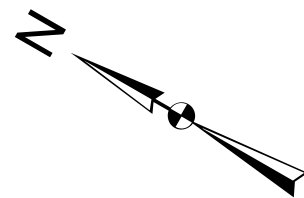


LEGEND

- [] Branch/Section Identifier
- Sample Unit
- Unit of Pavement Sampled 2002



Pavement Surface Age January 2003 Hooper Bay Airport



Airport Code: HPB
Site No.: 50322.*A

Pavement Surface Age
January 2003

<div></div>	0 - 4 yrs
<div></div>	5 - 9 yrs
<div></div>	10 - 14 yrs
<div></div>	15 - 19 yrs
<div></div>	20 - 24 yrs
<div></div>	25 - 29 yrs
<div></div>	>30 yrs

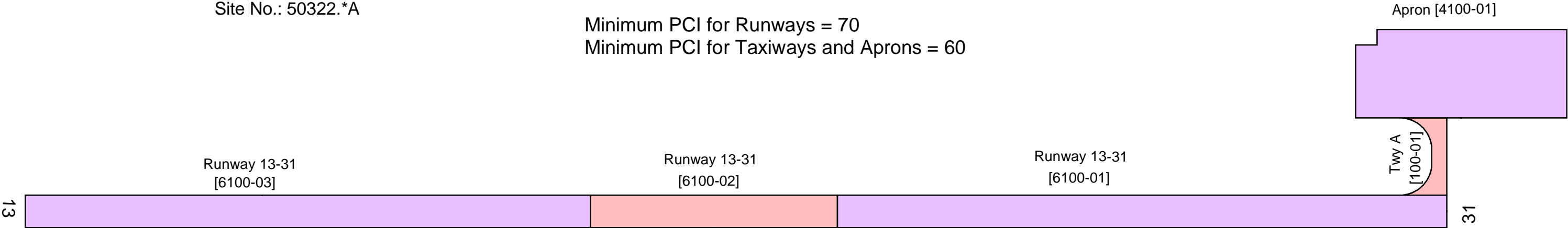
Hooper Bay Airport

Pavement Condition Index - PCI Measured Values for the Year 2002

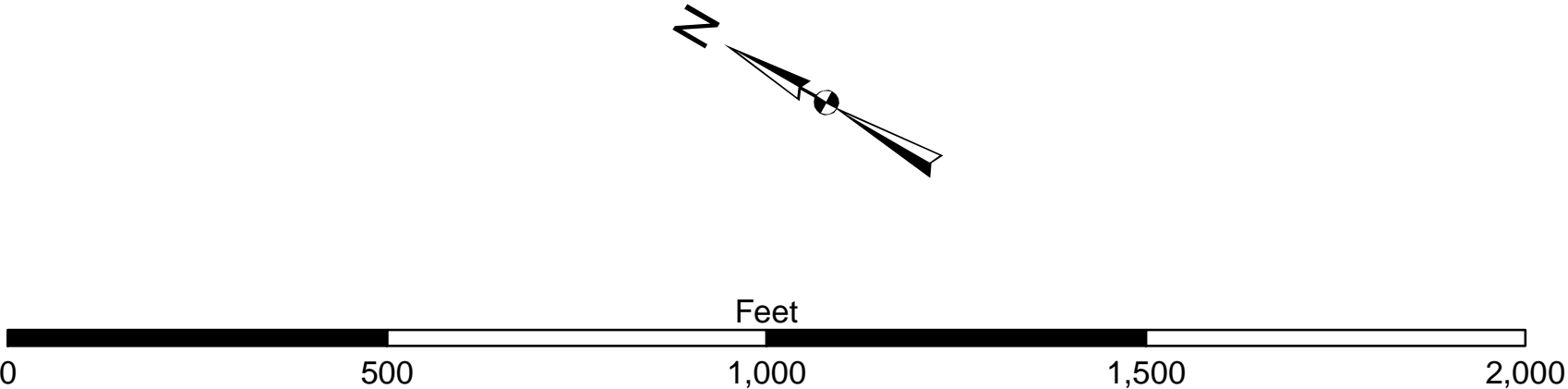
Airport Code: HPB
Site No.: 50322.*A

[] Branch - Section Identifier

Minimum PCI for Runways = 70
Minimum PCI for Taxiways and Aprons = 60



PCI Values		General Pavement Recommendations
<div></div>	85 - 100	Do Nothing or Preventative Maintenance
<div></div>	70 - 84	Preventative Maintenance
<div></div>	60 - 69	Corrective Maintenance
<div></div>	55 - 59	Rehabilitate
<div></div>	40 - 54	Rehabilitate
<div></div>	25 - 39	Reconstruct
<div></div>	10 - 24	Reconstruct
<div></div>	0 - 9	Reconstruct



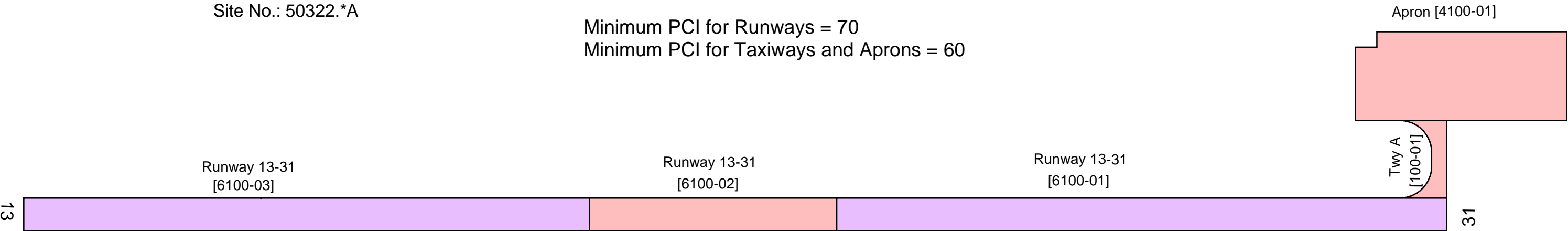
Hooper Bay Airport

Pavement Condition Index - PCI Predicted Values for the Year 2003

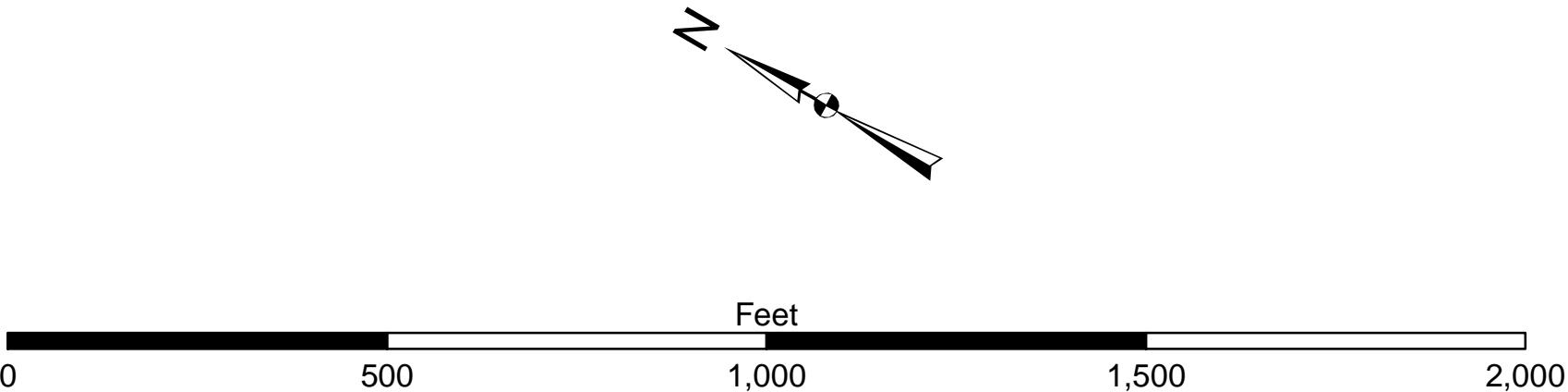
Airport Code: HPB
Site No.: 50322.*A

[] Branch - Section Identifier

Minimum PCI for Runways = 70
Minimum PCI for Taxiways and Aprons = 60



PCI Values		General Pavement Recommendations
<div></div>	85 - 100	Do Nothing or Preventative Maintenance
<div></div>	70 - 84	Preventative Maintenance
<div></div>	60 - 69	Corrective Maintenance
<div></div>	55 - 59	Rehabilitate
<div></div>	40 - 54	Rehabilitate
<div></div>	25 - 39	Reconstruct
<div></div>	10 - 24	Reconstruct
<div></div>	0 - 9	Reconstruct



Hooper Bay Airport

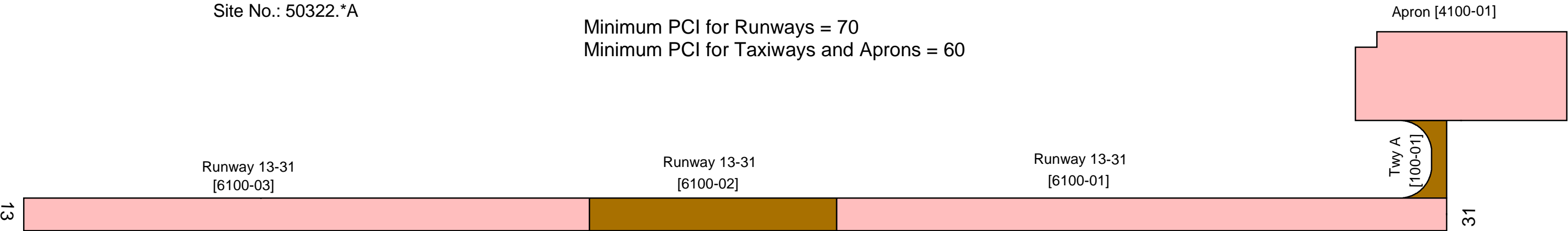
Pavement Condition Index - PCI

Predicted Values for the Year 2004

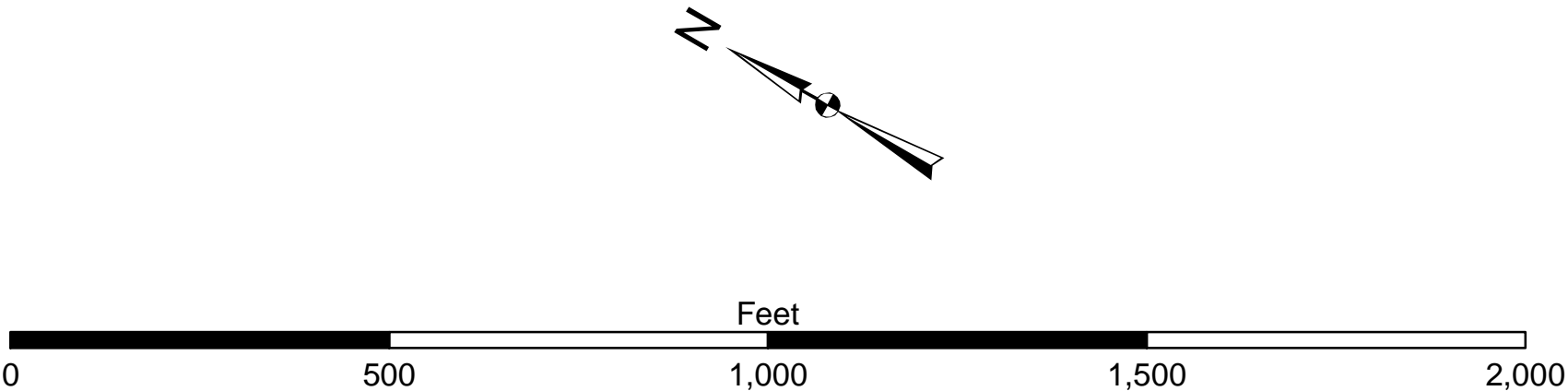
Airport Code: HPB
Site No.: 50322.*A

[] Branch - Section Identifier

Minimum PCI for Runways = 70
Minimum PCI for Taxiways and Aprons = 60



PCI Values		General Pavement Recommendations
<div></div>	85 - 100	Do Nothing or Preventative Maintenance
<div></div>	70 - 84	Preventative Maintenance
<div></div>	60 - 69	Corrective Maintenance
<div></div>	55 - 59	Rehabilitate
<div></div>	40 - 54	Rehabilitate
<div></div>	25 - 39	Reconstruct
<div></div>	10 - 24	Reconstruct
<div></div>	0 - 9	Reconstruct



Hooper Bay Airport

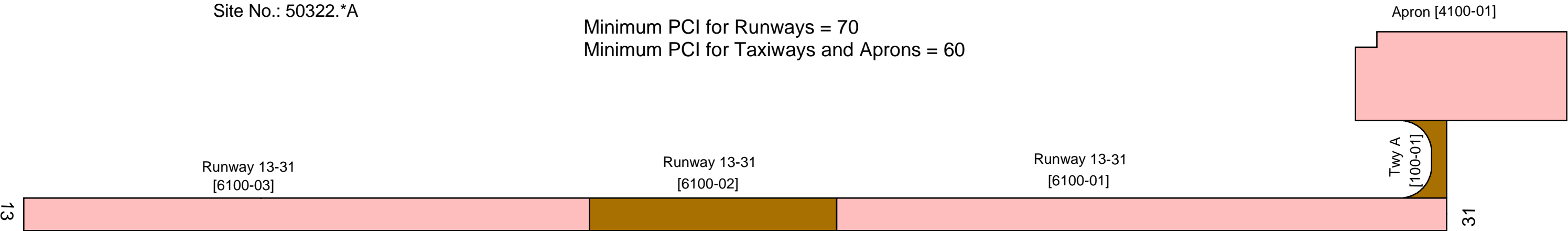
Pavement Condition Index - PCI

Predicted Values for the Year 2005

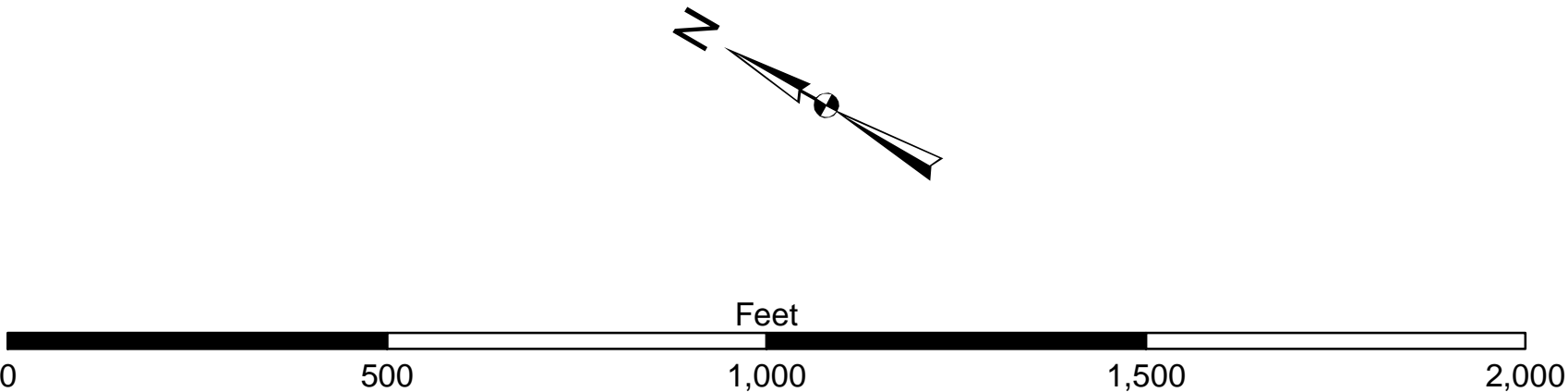
Airport Code: HPB
Site No.: 50322.*A

[] Branch - Section Identifier

Minimum PCI for Runways = 70
Minimum PCI for Taxiways and Aprons = 60



PCI Values		General Pavement Recommendations
<div></div>	85 - 100	Do Nothing or Preventative Maintenance
<div></div>	70 - 84	Preventative Maintenance
<div></div>	60 - 69	Corrective Maintenance
<div></div>	55 - 59	Rehabilitate
<div></div>	40 - 54	Rehabilitate
<div></div>	25 - 39	Reconstruct
<div></div>	10 - 24	Reconstruct
<div></div>	0 - 9	Reconstruct



Hooper Bay Airport

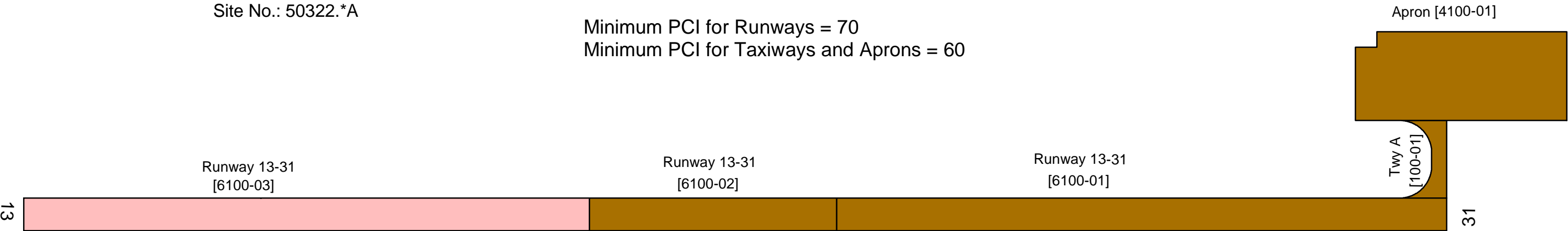
Pavement Condition Index - PCI

Predicted Values for the Year 2006

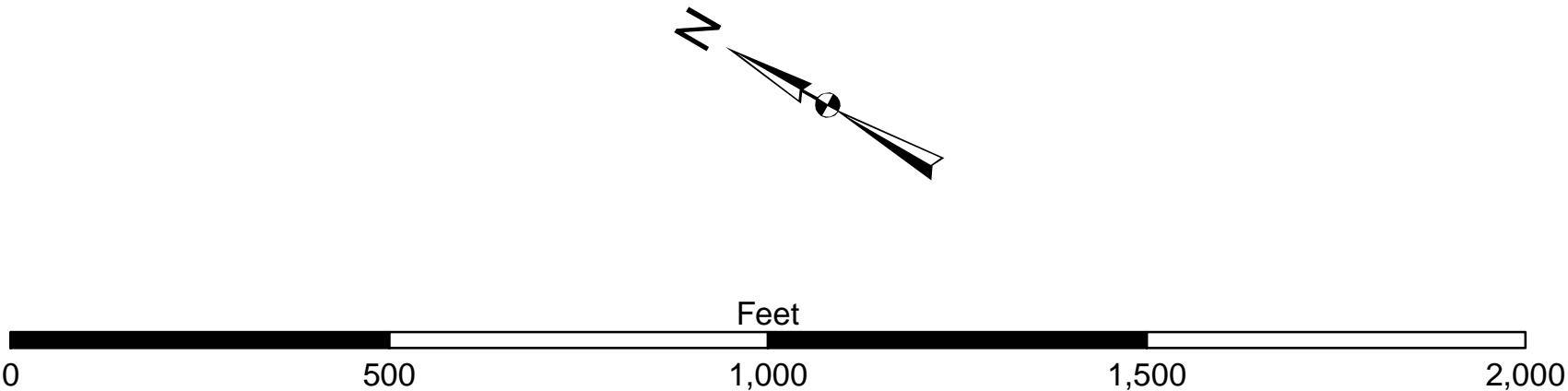
Airport Code: HPB
Site No.: 50322.*A

[] Branch - Section Identifier

Minimum PCI for Runways = 70
Minimum PCI for Taxiways and Aprons = 60



PCI Values		General Pavement Recommendations
<div></div>	85 - 100	Do Nothing or Preventative Maintenance
<div></div>	70 - 84	Preventative Maintenance
<div></div>	60 - 69	Corrective Maintenance
<div></div>	55 - 59	Rehabilitate
<div></div>	40 - 54	Rehabilitate
<div></div>	25 - 39	Reconstruct
<div></div>	10 - 24	Reconstruct
<div></div>	0 - 9	Reconstruct



Hooper Bay Airport

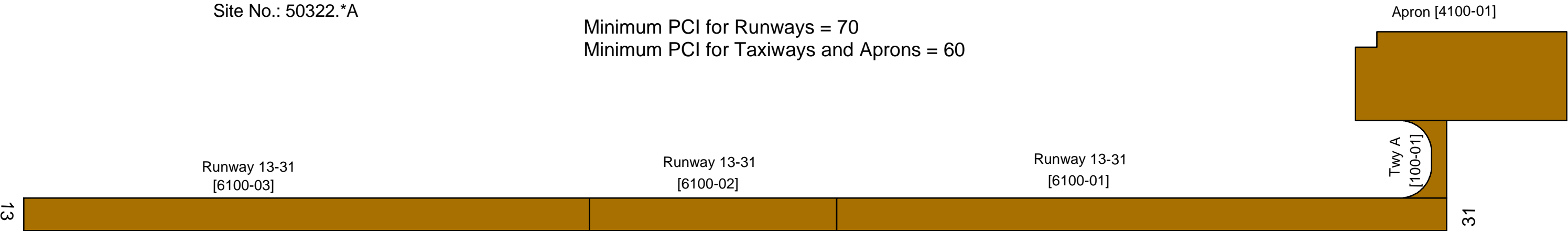
Pavement Condition Index - PCI

Predicted Values for the Year 2007

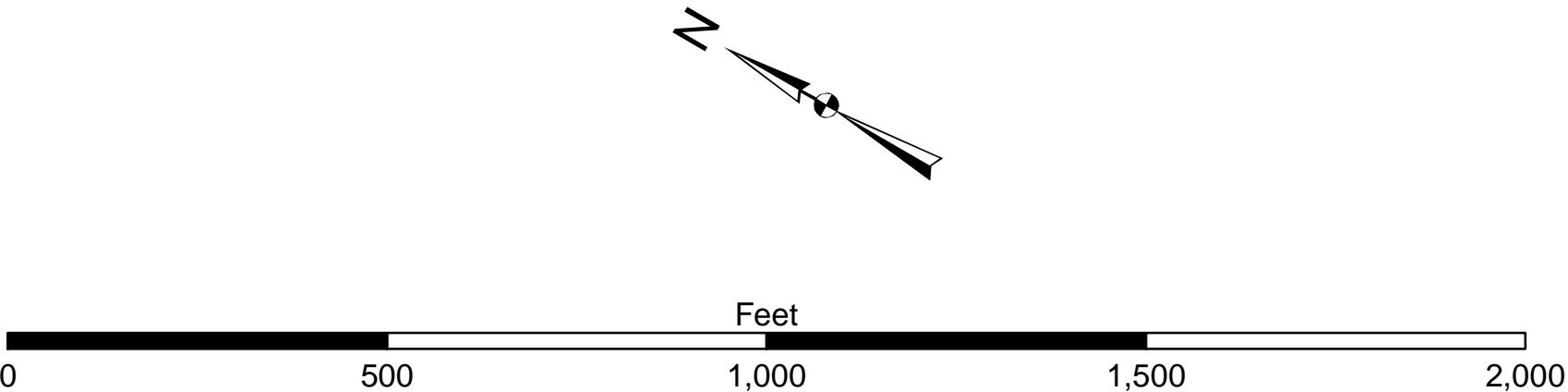
Airport Code: HPB
Site No.: 50322.*A

[] Branch - Section Identifier

Minimum PCI for Runways = 70
Minimum PCI for Taxiways and Aprons = 60



PCI Values		General Pavement Recommendations
<div></div>	85 - 100	Do Nothing or Preventative Maintenance
<div></div>	70 - 84	Preventative Maintenance
<div></div>	60 - 69	Corrective Maintenance
<div></div>	55 - 59	Rehabilitate
<div></div>	40 - 54	Rehabilitate
<div></div>	25 - 39	Reconstruct
<div></div>	10 - 24	Reconstruct
<div></div>	0 - 9	Reconstruct



Hooper Bay Airport

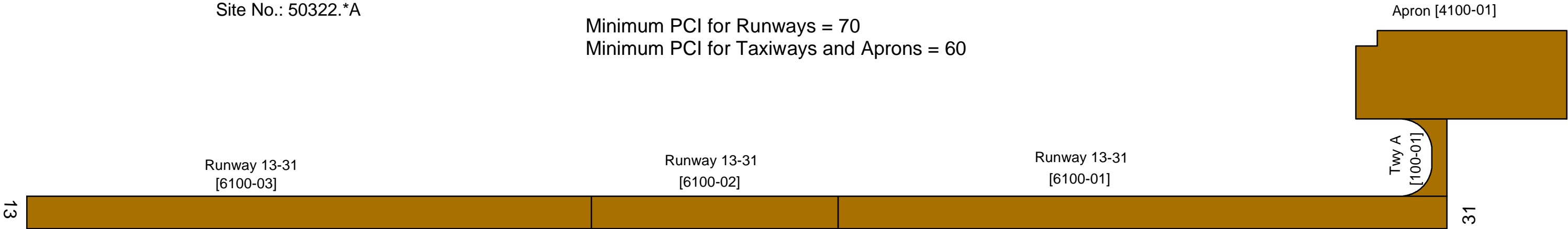
Pavement Condition Index - PCI

Predicted Values for the Year 2008

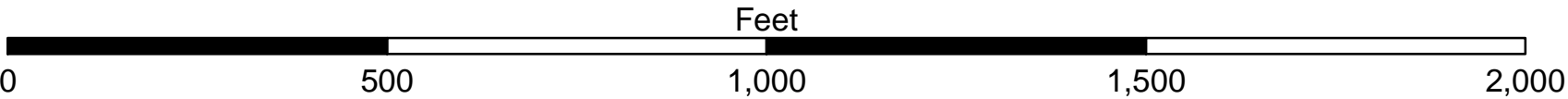
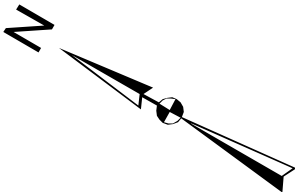
Airport Code: HPB
Site No.: 50322.*A

[] Branch - Section Identifier

Minimum PCI for Runways = 70
Minimum PCI for Taxiways and Aprons = 60



PCI Values		General Pavement Recommendations
<div></div>	85 - 100	Do Nothing or Preventative Maintenance
<div></div>	70 - 84	Preventative Maintenance
<div></div>	60 - 69	Corrective Maintenance
<div></div>	55 - 59	Rehabilitate
<div></div>	40 - 54	Rehabilitate
<div></div>	25 - 39	Reconstruct
<div></div>	10 - 24	Reconstruct
<div></div>	0 - 9	Reconstruct



Map compiled 2002 (revised July 2003)
by Statewide Pavement Management, AK DOT&PF



